

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference OP100808SKI	FOR FURTHER ACTION see Form PCT/ISA/220 as well as, where applicable, item 5 below.	
International application No. PCT/FI2004/000501	International filing date (day/month/year) 27/08/2004	(Earliest) Priority Date (day/month/year) 29/08/2003
Applicant KEMIRA OYJ		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 4 sheets.

☒ It is also accompanied by a copy of each prior art document cited in this report.

1. **Basis of the report**

- a. With regard to the **language**, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ The international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

- b. ☐ With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, see Box No. I.

2. ☐ **Certain claims were found unsearchable** (See Box II).

3. ☐ **Unity of invention is lacking** (see Box III).

4. With regard to the **title**,

☒ the text is approved as submitted by the applicant.

☐ the text has been established by this Authority to read as follows:

5. With regard to the **abstract**,

☒ the text is approved as submitted by the applicant.

☐ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. With regards to the **drawings**,

- a. the figure of the **drawings** to be published with the abstract is Figure No. 8

☒ as suggested by the applicant.

☐ as selected by this Authority, because the applicant failed to suggest a figure.

☐ as selected by this Authority, because this figure better characterizes the invention.

- b. ☐ none of the figures is to be published with the abstract.

INTERNATIONAL SEARCH REPORT

International Application No
PCT/FI2004/000501

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 G05B13/02 C02F1/00 G05D21/02

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 G05B C02F G05D

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, INSPEC, COMPENDEX

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	E JUUSO ET AL.: "Intelligent methods in dosing contro of water treatment" PROCEEDINGS OF WORKSHOP ON APPLICATIONS IN CHEMICAL AND BIOCHEMICAL INDUSTRY, 15 September 1999 (1999-09-15), XP002311026 cited in the application the whole document ----- -/--	1-35

☒ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

* Special categories of cited documents :

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- * & * document member of the same patent family

Date of the actual completion of the international search

16 December 2004

Date of mailing of the international search report

13/01/2005

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Goetz, P

INTERNATIONAL SEARCH REPORT

International Application No
PCT/FI2004/000501

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	JÄRVENSIVU ET AL.: "Intelligent control of a rotary kiln fired with producer gas generated from biomass" ENGINEERING APPLICATIONS OF ARTIFICIAL INTELLIGENCE, vol. 14, no. 5, October 2001 (2001-10), pages 629-653, XP002311027 cited in the application page 633, paragraph 4.1 - page 646, paragraph 5.6; figures 4,7-10	1-35
A	US 6 408 227 B1 (SINGHVI ET AL.) 18 June 2002 (2002-06-18) column 3, line 9 - column 6, line 2 column 11, line 48 - column 12, line 53; figures 1-6,12-16	1-35
A	EP 0 985 988 A (SCK CEN) 15 March 2000 (2000-03-15) page 5, lines 7-12; claims 1,2; figures 1-3 page 9, lines 20-54; figures 1-7	1
A	EP 1 324 165 A (PROTEO SPA) 2 July 2003 (2003-07-02) page 15, line 40 - page 19, line 34; figures 1-7	1,18
A	WO 94/19729 A (OPTUM UMWELTTECH GMBH ; HAUPT MARTIN (DE); ILGE HANS DIETER (DE); THEM) 1 September 1994 (1994-09-01) claim 1; figures 2,3	1

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/FI2004/000501

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
US 6408227	B1	18-06-2002	AU	7617900 A	30-04-2001
			WO	0123966 A1	05-04-2001
EP 0985988	A	15-03-2000	EP	0985988 A1	15-03-2000
			WO	0016173 A2	23-03-2000
EP 1324165	A	02-07-2003	IT	RM20010775 A1	30-06-2003
			EP	1324165 A2	02-07-2003
WO 9419729	A	01-09-1994	DE	4304676 C1	23-06-1994
			WO	9419729 A1	01-09-1994
			EP	0685083 A1	06-12-1995
			ES	2102835 T3	01-08-1997